Title: Method For Spindle Bearing Friction Estimation For Reliable Disk Drive Startup Operation

Docket No.: Serial No.:

PANA-01066US3 Unassigned

Inventor: Attorney: Filed:

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Sheet 1 of 2

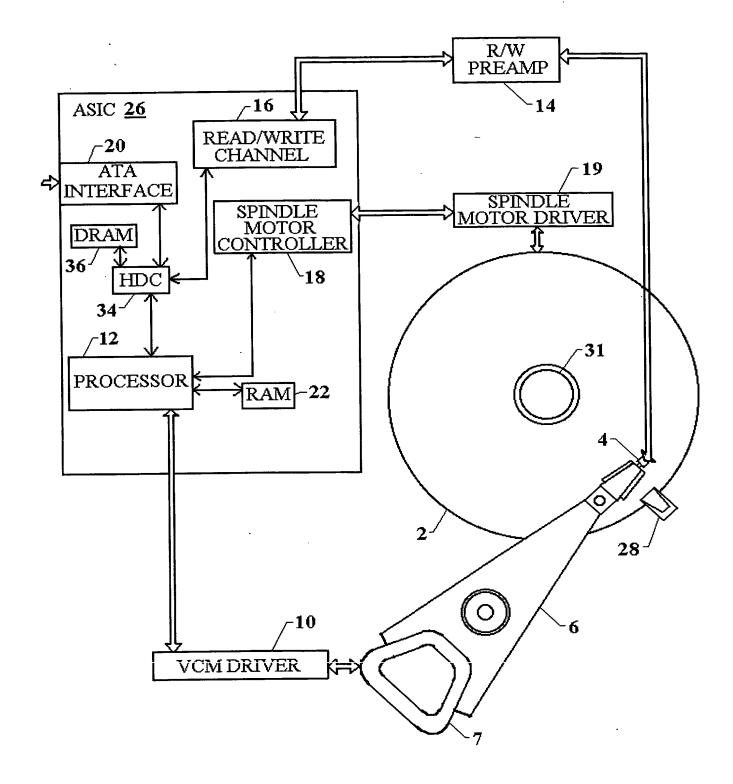


FIG. 1

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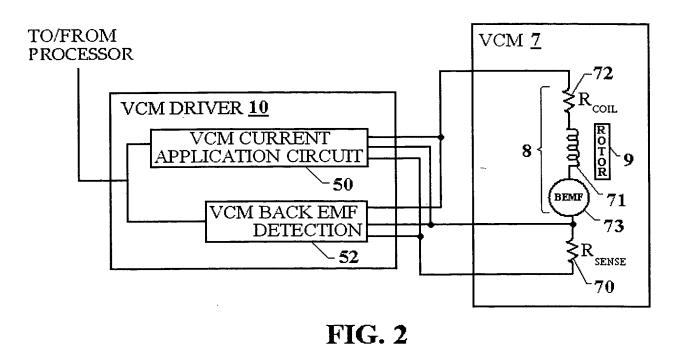
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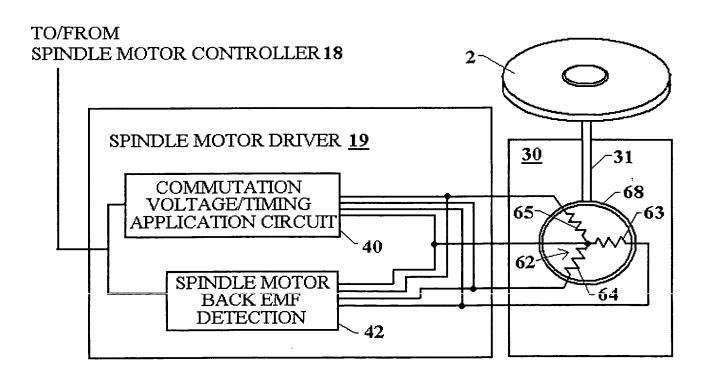


FIG. 3